

The listing of the claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 - 5 (canceled).

Claim 6 (new) Gas cooling device for coke oven gas that contains condensing constituents, having

a gas channel (6) through which coke oven gas flows, and

cooling plates (5) through which a coolant flows, which are combined to form at least one heat exchanger package with channel-forming spacers (7),

whereby the heat exchanger package is disposed in the gas channel (6) with a vertical orientation of the cooling plates (5), and a sprinkling device (2) is provided above the heat exchanger package, wherein the coke-oven gas flows through the gas channels formed by the spacers (7), and that the liquid that exits from the sprinkling device (2) is applied to them,

so that the gas-side heat-exchanger surface of the cooling plates (5) is wetted with liquid and a film of liquid forms on the heat-exchanger surface, which transports away constituents that condense out of the coke-oven gas, and that the heat exchanger package can be inserted laterally into the gas channel (6), as a replacement unit.

Claim 7 (new). Gas cooling device according to claim 6, wherein the heat exchanger package is disposed in a vertical segment of the gas channel (6), and that the coke-oven gas flows through the heat exchanger package in the same current or counter-current to the film of liquid that runs down the heat exchanger surfaces.

Claim 8 (new). Gas cooling device according to claim 6, wherein the heat exchanger package is disposed in a horizontal segment of the gas channel (6), and that the coke-oven gas flows through the heat exchanger package in a cross-current to the film of liquid that runs down the heat exchanger surfaces.

Claim 9 (new). Gas cooling device according to claim 6, wherein the sprinkling device (2) is installed in the gas channel (6) in fixed manner.